



# Mobile, Modular Hospital Concept

## What It Is:

When a soldier in the field becomes ill or wounded, Forward Surgical Teams must provide treatment even in remote, poorly equipped sites and inclement weather. The Mobile, Modular Hospital is a new concept that will provide a mobile, climate-controlled shelter — letting Forward Surgical Teams effectively reach and treat troops in the field.

## Why It's Needed:

Forward Surgical Teams now use an old-design tent called the General Purpose-Large (GP-Large), which has many shortcomings: it has no floor, and it's difficult to erect, unstable in high winds, not environmentally controlled, and leaky in wind-driven rain and blowing sand.

## How It Works:

**Protected Floor Space...** A single shelter module of the hospital, at 1140 square feet, will support the pre-op, surgery, and post-op for a Forward Surgical Team. Four modules could be complexed to provide the protected floor space needed for the Medical Reengineering Initiative hospital, a concept for a mobile 84-bed hospital.

**Airbeam Support...** This airbeam shelter is lighter weight than the GP-Large, which is supported by poles. Once the shelter is rolled out on the ground, an inflation blower easily inflates the airbeams and deploys the shelter.

**Climate Control...** A dedicated Environmental Control Unit (ECU) provides heating and air conditioning in the self-contained shelter.

**High Mobility...** The Mobile, Modular Hospital will be transported by a modified Medium Tactical Vehicle Trailer. The trailer provides the ECU, the inflation blower, a generator for power, and fuel and water tanks. An on-board lifting arm will deploy each shelter module off the trailer.

## Benefits:

**Transportable...** Lightweight and compact, the Mobile, Modular Hospital will be much more mobile than existing hospitals. Power, heating and cooling are all mounted on the trailer.

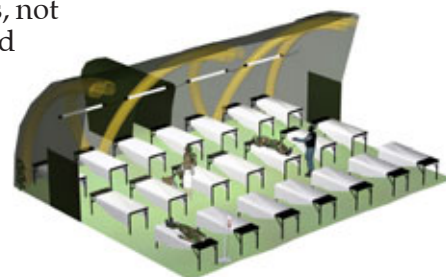
**Efficient...** Because the airbeam shelters self-deploy, fewer soldiers are needed to erect the hospital and deployment times are greatly reduced.

## Point of Contact:

**Collective Protection Liaison**  
Phone: 508-233-4347



**FST Shelter Module**



**MRI Hospital Module**



**MTV Trailer Delivery/Deployment System**

**MRI Hospital Complex (84 beds)**



U.S. Army  
Soldier and Biological  
Chemical Command

Soldier Systems Center  
Kansas Street  
Natick, Massachusetts  
01760  
[www.sbccom.army.mil](http://www.sbccom.army.mil)

Rev 4-4-00